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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/646,452	08/21/2003	Mahesh Chellappa	2705-0733	9539
73552	7590	05/09/2008	EXAMINER	
Stolowitz Ford Cowger LLP			SHAND, ROBERTA A	
621 SW Morrison St				
Suite 600			ART UNIT	PAPER NUMBER
Portland, OR 97205			2616	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/646,452	CHELLAPPA ET AL.	
	Examiner	Art Unit	
	Roberta A. Shand	2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 07 February 2008.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-17 and 26-38 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-17 and 26-38 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ . |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ . | 6) <input type="checkbox"/> Other: _____ . |

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-17 and 26-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dykeman (U.S. 7177951 B1) in view of Rajsic (U.S. 7283467 B2).

3. Regarding claim 1, Dykeman teaches (fig.4) a method for crankback handling in a multi-peer group network, comprising: receiving a first connection request from a node of a first peer group (col. 10, line 39 – 47); detecting a call failure occurring inside a second different peer group between nodes within a second peer group (col. 10, lines 48-50); transmitting a crankback from the second peer group to the first peer group (col. 10, lines 50=59), wherein the crankback specifies a blocked interface (Node AA Blocked) at a first link between the first peer group and the second peer group, the crankback transmitted from a node of the second peer group; and receiving a second connection request from the node of the first peer group, the second connection request using a second link to the second peer group that avoids the call failure (col. 10, line 60 – col. 11, line 4).

4. Dykeman does not teach transmitting a succeeding end crankback rather than a next higher level crankback specifying a block at a first link located outside the first and second peer groups.

5. Rajsic teaches (fig. 3 and col. 4, line 55 – col. 5, line 67) transmitting a succeeding end crankback rather than a next higher level crankback specifying a block at a first link located outside the first and second peer groups. It would have been obvious to one of ordinary skill in the art to adapt this to Dykeman's system because the SEB crankback generated by the entry border node will allow the exit border node of the preceding peer group, after following the prior art PNNI crankback procedures, to try other parallel trunk groups entering the destination peer group that may lead to other entry border nodes and more alternate paths.

6. Regarding claims 2, 10 and , Dykeman teaches (fig.5) the first peer group is a preceding peer group and the second peer group is a succeeding peer group.

7. Regarding claims 3, 11 and , Dykeman teaches (fig.5) the node of the second peer group is an entry border node configured to receive connection requests for the second peer group.

8. Regarding claims 4, 12 and , Dykeman teaches (col. 10, lines 50-59) the blocked interface is specified between an originating node in the first peer group and an entry border node in the second peer group.

9. Regarding claims 5, 13 and , Dykeman teaches (col. 10, lines 50-59) the blocked interface causes the originating node to use an alternate exit border node within the first peer group to implement the second link to the second peer group.

10. Regarding claims 6, 14 and , Dykeman teaches (abstract and col. 1, lines 13-29) the network is an ATM network.

11. Regarding claims 7, 15 and 31, Dykeman teaches (col. 10, lines 30-34) the node of the second peer group is configured to use a DTL to discover the first connection request was transmitted from the first peer group.

12. Regarding claims 8, 17 and , Dykeman teaches (col. 10, lines 60-67) transmitting a list (topology database) from the node in the second peer group to the node in the first peer group, the list specifying nodes in the first peer group that have connectivity with the node in the second peer group; and using the information in list to transmit the second connection request to ensure the second link avoids the call failure.

13. Regarding claim 9, Dykeman teaches (fig.4) a packet switch for crankback handling in a multi-peer group network comprising: means for receiving a first connection request from a node of a first peer group (col. 10, lines 39-47); means for detecting a call failure within a second peer group (col. 10, lines 48-50); means for transmitting a crankback from the second peer group to the first peer group (col. 10, lines 50-59), wherein the crankback specifies a blocked interface (Node AA Blocked) at a first link between the first peer group and the second peer group, the crankback causing a second connection request from the node of the first peer group, the second connection request using a second link to the second peer group that avoids the call failure (col. 11, line 60 – col. 11, line 5).

14. Dykeman does not teach transmitting a succeeding end crankback rather than a next higher level crankback specifying a block at a first link located outside the first and second peer groups.

15. Rajsic teaches (fig. 3 and col. 4, line 55 – col. 5, line 67) transmitting a succeeding end crankback rather than a next higher level crankback specifying a block at a first link located outside the first and second peer groups. It would have been obvious to one of ordinary skill in the art to adapt this to Dykeman's system because the SEB crankback generated by the entry border node will allow the exit border node of the preceding peer group, after following the prior art PNNI crankback procedures, to try other parallel trunk groups entering the destination peer group that may lead to other entry border nodes and more alternate paths.

16. Regarding claims 16 and 32, Dykeman teaches (abstract) the packet switch is compatible with a version of a PNNI standard.

17. Regarding claim 26, Dykeman teaches (fig.4) a switch in a multi-peer group network operable to: receive a first connection request from a node of a preceding peer group on a first link (col. 10, line 39 - 47); detect a call failure inside a succeeding peer group (col. 10, lines 48-50); identify a second link between the preceding peer group and the succeeding peer group (col. 10, lines 50-59); and transmit a crankback (col. 10, lines 50-59), wherein crankback specifies the first link as blocked (Node AA Blocked) at a succeeding end and wherein the crankback causes a second connection request from a node of the preceding peer group, the second connection

request using the second link to the succeeding peer group that avoids the call failure (col. 11, line 60 – col. 11, line 5).

18. Dykeman does not teach transmitting a succeeding end crankback rather than a next higher level crankback specifying a block at a first link located outside the first and second peer groups.

19. Rajsic teaches (fig. 3 and col. 4, line 55 – col. 5, line 67) transmitting a succeeding end crankback rather than a next higher level crankback specifying a block at a first link located outside the first and second peer groups. It would have been obvious to one of ordinary skill in the art to adapt this to Dykeman's system because the SEB crankback generated by the entry border node will allow the exit border node of the preceding peer group, after following the prior art PNNI crankback procedures, to try other parallel trunk groups entering the destination peer group that may lead to other entry border nodes and more alternate paths.

20. Regarding claim 27, Rajsic teaches (fig. 3 and col. 4, line 55 – col. 5, line 67) the crankback is a succeeding end crankback and wherein the succeeding end crankback is transmitted rather than a next higher level crankback.

21. Regarding claim 28, Dykeman teaches (col. 10, lines 50-59) the first link is specified between an originating node in the preceding peer group and the switch in the succeeding peer group.

22. Regarding claim 29, Rajsic teaches (fig. 3 and col. 4, line 55 – col. 5, line 67) the second link uses a different node of the preceding peer group to implement the second link to the succeeding peer group than the node of the preceding peer group used to implement the first link.

23. Regarding claim 30, Dykeman teaches (abstract and col. 1, lines 13-29) wherein the switch comprises an ATM switch.

24. Regarding claim 33, Dykeman teaches (col. 10, lines 30-34) transmitting a list to a node in the preceding peer group, the list specifying nodes in the preceding peer group that have connectivity with the switch, wherein the node uses the list to ensure the second link avoids the call failure.

25. Regarding claim 34, 35, 37 and 38, the list is transported in a GAT IE and the organization specific application type comprises a Cisco Organization Unique Identifier, would have been obvious to one of ordinary skill in the art as they are well known in the art.

26. Regarding claim 36, Dykeman teaches (fig.4) a switch in a multi-peer group network operable to: send a first connection request from a preceding peer group on a first link (col. 10, line 39 – 47); receive a crankback from the succeeding peer group (col. 10, lines 50-59), wherein the crankback specifies the first link as blocked (Node AA Blocked) at a succeeding end if there is a call failure inside the succeeding peer group; and a list specifying nodes in the preceding peer group that have connectivity with the succeeding peer group (col. 10, lines 60-67); and

select an alternate switch of the preceding peer group based at least in part on the list (col. 10, lines 60-67); and forward the crankback to the alternate switch wherein the alternate switch is operable to send a second connection request to a node of the succeeding peer group, the second connection request using a second link to the succeeding peer group that avoids the call failure. (col. 11, line 60 – col. 11, line 5).

27. Dykeman does not teach transmitting a succeeding end crankback rather than a next higher level crankback specifying a block at a first link located outside the first and second peer groups.

28. Rajsic teaches (fig. 3 and col. 4, line 55 – col. 5, line 67) transmitting a succeeding end crankback rather than a next higher level crankback specifying a block at a first link located outside the first and second peer groups. It would have been obvious to one of ordinary skill in the art to adapt this to Dykeman's system because the SEB crankback generated by the entry border node will allow the exit border node of the preceding peer group, after following the prior art PNNI crankback procedures, to try other parallel trunk groups entering the destination peer group that may lead to other entry border nodes and more alternate paths.

Response to Arguments

29. Applicant's arguments with respect to claims 1-17 and 26-38 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

30. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

31. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

32. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roberta A. Shand whose telephone number is 571-272-3161. The examiner can normally be reached on M-F 9:00am-5:30pm.

33. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-83003

Art Unit: 2616

34. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Roberta A. Shand
/R. A. S./
Examiner, Art Unit 2616

/FIRMIN BACKER/
Supervisory Patent Examiner, Art Unit 2616